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(54) TOOL OF CUBIC BORON NITRIDE-BASE SINTERED COMPACT HAVING ELECTRIC CONDUCTIVITY

(57)Abstract:
PURPOSE: To enable the electric discharge machining of the titled tool to be obtained and to remarkably improve machinability in the subsequent stages while maintaining machining characteristics, by providing electric conductivity to a cubic boron nitride-based sintered compact.
CONSTITUTION: A blended powder consisting of, by volume 3W20% Al, 13W36% aluminum oxide, 2W35% titanium diboride and/or nickel, and the balance cubic boron nitride is mixed by means of a ball mill, etc., and the resulting powder mixture is sintered by the use of an extra-high-pressure and high-temp. equipment and then machined to be formed into the titled tool. In this way, machinability can be maintained without deteriorating the hardness of a sintered compact by the addition of titanium diboride or nickel and electric discharge machining is made possible by the application of electric conductivity to the sintered compact, so that machinability for forming the sintered compact into the final cutting-edge shape can be improved.

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